

INTERNATIONAL SEARCH REPORT

International Application No
PCT/JP2004/016717

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C12N5/08 A61K35/12 A61P19/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 C12N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, BIOSIS, EMBASE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 01/62901 A (ARTECEL SCIENCES, INC; WILKISON, WILLIAM, O; GIMBLE, JEFFREY) 30 August 2001 (2001-08-30) cited in the application the whole document	1-72
X	WO 00/53795 A (UNIVERSITY OF PITTSBURGH OF THE COMMONWEALTH SYSTEM OF HIGHER EDUCATIO) 14 September 2000 (2000-09-14) cited in the application the whole document	14-25, 31-39, 42,43, 45,48-72
X	WO 03/022988 A (THE REGENTS OF THE UNIVERSITY OF CALIFORNIA) 20 March 2003 (2003-03-20) cited in the application examples 1,8-10	14-39, 42,43, 45,48-72
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *Z* document member of the same patent family

Date of the actual completion of the international search

4 July 2005

Date of mailing of the international search report

11/07/2005

Name and mailing address of the ISA

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INTERNATIONAL SEARCH REPORT

national Application No
PCT/JP2004/016717

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	ZUK P A ET AL: "Multilineage cells from human adipose tissue: Implications for cell-based therapies" TISSUE ENGINEERING, vol. 7, no. 2, April 2001 (2001-04), pages 211-228, XP002198710 ISSN: 1076-3279 cited in the application the whole document	14-39, 42,43, 45,48-72
X	GIMBLE J M GUILAK F: "Adipose-derived adult stem cells: Isolation, characterization, and differentiation potential" CYTOTHERAPY, vol. 5, no. 5, 2003, pages 362-369, XP009034648 ISSN: 1465-3249 the whole document	32-39, 45,48-72
A	GRONTHOS S ET AL: "Integrin-mediated interactions between human bone marrow stromal precursor cells and the extracellular matrix" BONE, vol. 28, no. 2, February 2001 (2001-02), pages 174-181, XP002904586 ISSN: 8756-3282	
E	WO 2005/035738 A (BIOMASTER INC; YOSHIMURA, KOTARO) 21 April 2005 (2005-04-21) page 41 - page 42; example 2	1-72

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Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
Although claims 47, 67, 70 and 71 are directed to methods of treatment, the search has been carried out and based on the alleged effects of the composition.
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/JP2004/016717

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 0162901	A	30-08-2001	AU 3869501 A	03-09-2001
			CA 2400485 A1	30-08-2001
			EP 1261694 A2	04-12-2002
			JP 2003523767 T	12-08-2003
			WO 0162901 A2	30-08-2001
			US 2001033834 A1	25-10-2001
WO 0053795	A	14-09-2000	AU 3522300 A	28-09-2000
			BR 0008552 A	07-05-2002
			CA 2366078 A1	14-09-2000
			CN 1352696 A	05-06-2002
			EP 1165830 A1	02-01-2002
			JP 2002537849 A	12-11-2002
			WO 0053795 A1	14-09-2000
			US 2005076396 A1	07-04-2005
			US 2004171146 A1	02-09-2004
			US 6777231 B1	17-08-2004
			US 2002076400 A1	20-06-2002
			US 2003082152 A1	01-05-2003
			ZA 200106886 A	28-02-2002
WO 03022988	A	20-03-2003	US 2003082152 A1	01-05-2003
			CA 2459202 A1	20-03-2003
			CN 1592781 A	09-03-2005
			EP 1434855 A2	07-07-2004
			JP 2005502352 T	27-01-2005
			WO 03022988 A2	20-03-2003
			US 2005076396 A1	07-04-2005
WO 2005035738	A	21-04-2005	WO 2005035738 A1	21-04-2005